



SEQUENCE LISTING

<110> Luche, Ralf M.
Wei, Bo

<120> DSP-2 DUAL-SPECIFICITY PHOSPHATASE

<130> 200125.407

<140> US 09/527,376

<141> 2000-03-16

<160> 17

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 834

<212> DNA

<213> Homo sapien

68-632

<400> 1

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gcgccctctc gcagataacc aaaagcctgt atatcagcaa tgggtgtggc gccacaaca 180
agctcatgct gtctagcaac cagatcacca tggatcatca tgtctcagt gaggtagtga 240
acaccttgta tgaggatata cagtacatgc aggtacctgt ggctgactcc cctaactcac 300
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gocgtacttt gctgcactgt gctgctggtg tgagccgctc agctgccctg tgcctcgcct 420
acctcatgaa gtaccacgcc atgtccctgc tggacgcccc cacgtggacc aagtcatgcc 480
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tgtttggaac gaacactgtg cacatgggtc gttccccagt gggaaatgat cctgacatct 600
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agtcagaggt acagatctat tgttgatctt acaccaagat ccaaacttga acattctact 720
tttggtgata cagaaaaaaa cagatgatgc cttttatgag cacaaaaaag agttgctgta 780
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<210> 2

<211> 188

<212> PRT

<213> Homo sapien

68-632

<400> 2

Met Thr Ala Pro Ser Cys Ala Phe Pro Val Gln Phe Arg Gln Pro Ser
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Val Ser Gly Leu Ser Gln Ile Thr Lys Ser Leu Tyr Ile Ser Asn Gly
20 25 30
Val Ala Ala Asn Asn Lys Leu Met Leu Ser Ser Asn Gln Ile Thr Met
35 40 45
Val Ile Asn Val Ser Val Glu Val Val Asn Thr Leu Tyr Glu Asp Ile
50 55 60
Gln Tyr Met Gln Val Pro Val Ala Asp Ser Pro Asn Ser Arg Leu Cys

<220>
<223> PCR primer

<400> 6
gtaggcgagg cacagggcag 20

<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 7
cctgcttcac ctccacgctg 20

<210> 8
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 8
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<210> 9
<211> 20
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<213> Artificial Sequence

<220>
<223> PCR primer

<400> 9
cagcgtggag atgaagcagg 20

<210> 10
<211> 170
<212> PRT
<213> Homo sapien

<400> 10
Ser Asp Leu Asp Arg Asp Pro Asn Ser Ala Thr Asp Ser Asp Gly Ser
1 5 10 15
Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val Glu Ile Leu Pro Phe
20 25 30
Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Glu
35 40 45
Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn
50 55 60
Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile Pro Ile Ser
65 70 75 80
Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser

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<210> 11
<211> 168
<212> PRT
<213> Homo sapien
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<210> 12
<211> 168
<212> PRT
<213> Homo sapien
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<400> 12
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1 5 10 15
Pro Arg Val Pro Ile Tyr Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
20 25 30
Tyr Leu Tyr Leu Gly Ser Cys Asn His Ser Ser Asp Leu Gln Gly Leu
35 40 45
Gln Ala Cys Gly Ile Thr Ala Val Leu Asn Val Ser Ala Ser Cys Pro

50		55		60
Asn His Phe Glu Gly Leu Phe His Tyr Lys Ser Ile Pro Val Glu Asp				
65		70		80
Asn Gln Met Val Glu Ile Ser Ala Trp Phe Gln Glu Ala Ile Ser Phe				
	85		90	95
Ile Asp Ser Val Lys Asn Ser Gly Gly Arg Val Leu Val His Cys Gln				
	100		105	110
Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Ile Gln				
	115		120	125
Ser His Arg Val Arg Leu Asp Glu Ala Phe Asp Phe Val Lys Gln Arg				
	130		135	140
Arg Gly Val Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln				
	145		150	155
Leu Glu Thr Gln Val Leu Cys His				160
	165			

<210> 13
 <211> 169
 <212> PRT
 <213> Homo sapien

<400> 13
Pro Leu Ser Thr Ser Val Pro Asp Ser Ala Glu Ser Gly Cys Ser Ser
1 5 10 15
Cys Ser Thr Pro Leu Tyr Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
20 25 30
Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ser Arg Lys Asp Met Leu
35 40 45
Asp Ala Leu Gly Ile Thr Ala Leu Ile Asn Val Ser Ala Asn Cys Pro
50 55 60
Asn His Phe Glu Gly His Tyr Gln Tyr Lys Ser Ile Pro Val Glu Asp
65 70 75 80
Asn His Lys Ala Asp Ile Ser Ser Trp Phe Asn Glu Ala Ile Asp Phe
85 90 95
Ile Asp Ser Ile Lys Asn Ala Gly Gly Arg Val Phe Val His Cys Gln
100 105 110
Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Arg
115 120 125
Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Glu Phe Val Lys Gln Arg
130 135 140
Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
145 150 155 160
Phe Glu Ser Gln Val Leu Ala Pro His
165

<210> 14
 <211> 169
 <212> PRT
 <213> Homo sapien

<400> 14
Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser
1 5 10 15
Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro

[illegible]

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<210> 15
<211> 171
<212> PRT
<213> Homo sapien
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Ser	Tyr	Arg	Pro	Ala	Tyr	Asp	Gln	Gly	Gly	Pro	Val	Glu	Ile	Leu	Pro	
			20					25					30			
Phe	Leu	Tyr	Leu	Gly	Ser	Ala	Tyr	His	Ala	Ser	Lys	Cys	Glu	Phe	Leu	
		35					40					45				
Ala	Asn	Leu	His	Ile	Thr	Ala	Leu	Leu	Asn	Val	Ser	Arg	Arg	Thr	Ser	
	50					55				60						
Glu	Ala	Cys	Met	Thr	His	Leu	His	Tyr	Lys	Trp	Ile	Pro	Val	Glu	Asp	
65					70					75				80		
Ser	His	Thr	Ala	Asp	Ile	Ser	Ser	His	Phe	Gln	Glu	Ala	Ile	Asp	Phe	
				85					90					95		
Ile	Asp	Cys	Val	Arg	Glu	Lys	Gly	Gly	Lys	Val	Leu	Val	His	Cys	Glu	
			100					105					110			
Ala	Gly	Ile	Ser	Arg	Ser	Pro	Thr	Ile	Cys	Met	Ala	Tyr	Leu	Met	Lys	
		115					120					125				
Thr	Lys	Gln	Phe	Arg	Leu	Lys	Glu	Ala	Phe	Asp	Tyr	Ile	Lys	Gln	Arg	
	130					135					140					
Arg	Ser	Met	Val	Ser	Pro	Asn	Phe	Gly	Phe	Met	Gly	Gln	Leu	Leu	Gln	
145					150					155					160	
Tyr	Glu	Ser	Glu	Ile	Leu	Pro	Ser	Thr	Pro	Asn						
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<210> 16
<211> 149
<212> PRT
<213> Homo sapien
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<400> 16

Val Pro Ser Val Gly Leu Thr Arg Ile Leu Pro His Leu Tyr Leu Gly
 1 5 10 15
 Ser Gln Lys Asp Val Leu Asn Lys Asp Leu Met Thr Gln Asn Gly Ile
 20 25 30
 Ser Tyr Val Leu Asn Ala Ser Asn Ser Cys Pro Lys Pro Asp Phe Ile
 35 40 45
 Cys Glu Ser Arg Phe Met Arg Val Pro Ile Asn Asp Asn Tyr Cys Glu
 50 55 60
 Lys Leu Leu Pro Trp Leu Asp Lys Ser Ile Glu Phe Ile Asp Lys Ala
 65 70 75 80
 Lys Leu Ser Ser Cys Gln Val Ile Val His Cys Leu Ala Gly Ile Ser
 85 90 95
 Arg Ser Ala Thr Ile Ala Ile Ala Tyr Ile Met Lys Thr Met Gly Met
 100 105 110
 Ser Ser Asp Asp Ala Tyr Arg Phe Val Lys Asp Arg Arg Pro Ser Ile
 115 120 125
 Ser Pro Asn Phe Asn Phe Leu Gly Gln Leu Leu Glu Tyr Glu Arg Thr
 130 135 140
 Leu Lys Leu Leu Ala
 145

<210> 17

<211> 164

<212> PRT

<213> Homo sapien

<400> 17

Met Thr Ala Pro Ser Cys Ala Phe Pro Val Gln Phe Arg Gln Pro Ser
 1 5 10 15
 Val Ser Gly Leu Ser Gln Ile Thr Lys Ser Leu Tyr Ile Ser Asn Gly
 20 25 30
 Val Ala Ala Asn Asn Lys Leu Met Leu Ser Ser Asn Gln Ile Thr Met
 35 40 45
 Val Ile Asn Val Ser Val Glu Val Val Asn Thr Leu Tyr Glu Asp Ile
 50 55 60
 Gln Tyr Met Gln Val Pro Val Ala Asp Ser Pro Asn Ser Arg Leu Cys
 65 70 75 80
 Asp Phe Phe Asp Pro Ile Ala Asp His Ile His Ser Val Glu Met Lys
 85 90 95
 Gln Gly Arg Thr Leu Leu His Cys Ala Ala Gly Val Ser Arg Ser Ala
 100 105 110
 Ala Leu Cys Leu Ala Tyr Leu Met Lys Tyr His Ala Met Ser Leu Leu
 115 120 125
 Asp Ala His Thr Trp Thr Lys Ser Cys Arg Pro Ile Ile Arg Pro Asn
 130 135 140
 Ser Gly Phe Trp Glu Gln Leu Ile His Tyr Glu Phe Gln Leu Phe Gly
 145 150 155 160
 Lys Asn Thr Val